BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Improvements to Roads And Drains At PK's Mustering Center Surrounding Area In Ward No.13 Shettyhalli Sub Division

DASARAHALLI DIVISION

EMB

1st & Final Bill

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Name of work:Improvements to Roads And Drains At PK's Mustering Center Surrounding Area In Ward No.13 Shettyhalli Sub Division

Pre measurements

Pre measurement recorded on:

Item No	Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3.								
	Desilt								
	1st cross,Byraveshwara Layout								
	RHS	1	30.00			0.60	0.45	8.10	
		1	12.00			0.60	0.45	3.24	
	2nd cross, VijayaLakhshmi Layout								
	RHS								
		1	30.00			0.60	0.45	8.10	
		1	30.00			0.60	0.45	8.10	
		1	30.00			0.60	0.45	8.10	
	LHS								
		1	30.00			0.60	0.45	8.10	
		1	30.00			0.60	0.45	8.10	
		1	30.00			0.60	0.45	8.10	
	For RCC drain								
	1st cross,Byraveshwara Layout								
	RHS	1	6.00			0.75	1.00	4.50	
		1	12.00			1.10	1.00	13.20	
	For RCC Culvert								
	1st cross,Byraveshwara Layout								
		1	5.50			2.00	1.00	11.00	
	For CC Road								
	1st cross,Byraveshwara Layout								
		1	19.20	5.50	5.60	5.55	0.30	31.97	
	Main road,BHEL Mini Colony								
		1	15.00	6.20	5.50	5.85	0.30	26.33	
		1	15.00	5.50	5.50	5.50	0.30	24.75	
		1	5.50	5.50	5.95	5.73	0.30	9.45	
		1	15.00	6.90	7.90	7.40	0.30	33.30	
		1	15.00	7.90	7.60	7.75	0.30	34.88	
		1	15.00	7.60	7.20	7.40	0.30	33.30	
		1	19.90	7.20	7.80	7.50	0.30	44.78	
	Pk's Mustering Center Back Side Road								
		1	15.00	3.30	3.80	3.55	0.30	15.98	
		1	15.00	3.80	4.00	3.90	0.30	17.55	
		1	6.60	4.00	2.70	3.35	0.30	6.63	
	2nd cross, BHEL Mini Colony								
		1	15.00	5.20	4.80	5.00	0.30	22.50	
		1	15.00	4.80	5.10	4.95	0.30	22.28	
		1	15.00	5.10	5.10	5.10	0.30	22.95	
		1	17.40	5.10	5.00	5.05	0.30	26.36	
	2nd cross, VijayaLakhshmi Layout								
		1	15.00	4.30	3.70	4.00	0.30	18.00	
		1	15.00	3.70	3.70	3.70	0.30	16.65	
		1	15.00	3.70	4.35	4.03	0.30	18.11	
		1	15.00	4.35	4.05	4.20	0.30	18.90	
		1	15.00	4.05	4.65	4.35	0.30	19.58	
		1	15.40	4.65	5.57	5.11	0.30	23.61	

EXECUTIVE ENGINEER
Bruhat Bangalore Mahanagara Palike
Dasarahalli Division, Bangalore-57

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em No	Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
	Cross road								
		1	13.00	2.10	1.60	1.85	0.30	7.22	
		1	4.50	3.00	2.90	2.95	0.30	3.98	
	Shooting Banglow Main Road								
		1	15.00	5.00	5.00	5.00	0.30	22.50	
		1	13.00	5.00	5.40	5.20	0.30	20.28	
		1	15.00	4.30	3.60	3.95	0.30	17.78	
		1	15.00	3.60	3.40	3.50	0.30	15.75	
		1	4.70	3.40	3.40	3.40	0.30	4.79	
	Shree Shakti Bhavana Surroundings								
		1	18.15	2.40	4.45	3.43	0.30	18.65	
		1	16.40	2.40	2.90	2.65	0.30	13.04	
		1	14.50	3.14	2.60	2.87	0.30	12.48	
		1	7.67	2.32	1.90	2.11	0.30	4.86	
		1	17.13	2.38	2.70	2.54	0.30	13.05	
		1	2.95	1.20	1.20	1.20	0.30	1.06	
		1	5.00	1.65	1.27	1.46	0.30	2.19	
		1	15.96	2.19	2.10	2.15	0.30	10.27	
		1	10.00	1.97	2.02	2.00	0.30	5.99	
		1	17.70	2.60	2.32	2.46	0.30	13.06	
		1	14.60	1.75	2.36	2.06	0.30	9.00	
		1	6.27	1.07	1.18	1.13	0.30	2.12	
		1	7.00	1.20	0.60	0.90	0.30	1.89	
	Deductions								
	Main road,BHEL Mini Colony								
	Electric Pole	-4	0.20	0.20	0.20	0.20	0.30	-0.05	
	Man Hole	-1		(3.142*0.9*0.9)/4			0.30	-0.19	
	Trees Area	-9		(3.142*0.4*0.4)/4			0.30	-0.35	
	Borewell	-2		(3.142*0.4*0.4)/4			0.30	-0.08	
	Chamber	-1	1.50	0.30	0.30	0.30	0.30	-0.14	
	Ramp	-1	9.00	0.60	0.60	0.60	0.30	-1.62	
		-1	2.50	0.75	0.75	0.75	0.30	-0.56	
	Pk's Mustering Center Back Side Road								
	Electric Pole	-1	0.20	0.20	0.20	0.20	0.30	-0.01	
	Trees Area	-1		(3.142*0.4*0.4)/4			0.30	-0.04	
	2nd cross, BHEL Mini Colony								
	Man Hole	-1		(3.142*0.9*0.9)/4			0.30	-0.19	
	Ramp	-1	5.00	0.45	0.45	0.45	0.30	-0.68	
		-1	3.00	0.50	0.50	0.50	0.30	-0.45	
		-1	4.30	1.20	1.20	1.20	0.30	-1.55	
		-1	6.00	0.90	0.90	0.90	0.30	-1.62	
	Shooting Banglow Main Road								
	Man Hole	-3		(3.142*0.9*0.9)/4			0.30	-0.58	
	Ramp	-1	1.20	0.30	0.30	0.30	0.30	-0.11	
	Chamber	-1	0.45	0.45	0.45	0.45	0.30	-0.06	
	2nd cross, VijayaLakhshmi Layout								
	Electric Pole	-6	0.20	0.20	0.20	0.20	0.30	-0.07	
	Man Hole	-2		(3.142*0.9*0.9)/4			0.30	-0.38	

EXECUTIVE ENGINEER
Bruhat Bangalore Mahanagara Palike,
Mahadevapura Division, Bangalore-5

27/05/23

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Item No	Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
	Trees Area	-3		(3.142*0.4*0.4)/4			0.30	-0.12	
	Stage	-1	1.20	0.75	0.75	0.75	0.30	-0.27	
	Shree Shakti Bhavana Surroundings								
	Man Hole	-10		(3.142*0.9*0.9)/4			0.30	-1.92	
							Present Qty	**765.39**	**Cum**

Assistant Engineer
Ward No.13
14/06/20

Asst. Executive Engineer,
Shettyhalli Sub division
14/6

Scanned with CamScanner

Name of work:Improvements to Roads And Drains At PK's Mustering Center Surrounding Area In Ward No.13 Shettyhalli Sub Division

Pre Measurements

Item No	Pre Measurement Recorded on: / Discription of Item	No	Length	Breadth	Depth	Qty	Unit
2	Removing And Refixing stone slabs of drains and pointing in C.M (1:3)						
	1st cross,Byraveshwara Layout						
	RHS	1	25.00	0.90		22.50	
		1	8.00	0.90		7.20	
	2nd cross, VijayaLakhshmi Layout						
	RHS						
		1	30.00	0.90		27.00	
		1	20.20	0.90		18.18	
		1	20.00	0.90		18.00	
	LHS						
		1	19.00	0.90		17.10	
		1	24.00	0.90		21.60	
		1	25.00	0.90		22.50	
					Present Qty	**154.08**	**Sqm**

Assistant Engineer
Ward No.13

Asst. Executive Engineer,
Shettyhalli Sub division

EXECUTIVE ENGINEER -
Bruhat Bangalore Mahanagara Palike,
Dasarahalli Division, Bangalore-57.

Scanned with CamScanner

Name of work:Improvements to Roads And Drains At PK's Mustering Center Surrounding Area In Ward No.13 Shettyhalli Sub Division

Pre measurements

Pre measurement recorded on:

Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.								
For RCC drain								
1st cross,Byraveshwara Layout								
RHS	1	6.00			0.75	0.15	0.68	
	1	12.00			1.10	0.15	1.98	
For RCC Culvert								
1st cross,Byraveshwara Layout								
	1	5.50			2.00	0.15	1.65	
For CC Road								
1st cross,Byraveshwara Layout								
	1	19.20	5.50	5.60	5.55	0.15	15.98	
Main road,BHEL Mini Colony								
	1	15.00	6.20	5.50	5.85	0.15	13.16	
	1	15.00	5.50	5.50	5.50	0.15	12.38	
	1	5.50	5.50	5.95	5.73	0.15	4.72	
	1	15.00	6.90	7.90	7.40	0.15	16.65	
	1	15.00	7.90	7.60	7.75	0.15	17.44	
	1	15.00	7.60	7.20	7.40	0.15	16.65	
	1	19.90	7.20	7.80	7.50	0.15	22.39	
Pk's Mustering Center Back Side Road								
	1	15.00	3.30	3.80	3.55	0.15	7.99	
	1	15.00	3.80	4.00	3.90	0.15	8.78	
	1	6.60	4.00	2.70	3.35	0.15	3.32	
2nd cross, BHEL Mini Colony								
	1	15.00	5.20	4.80	5.00	0.15	11.25	
	1	15.00	4.80	5.10	4.95	0.15	11.14	
	1	15.00	5.10	5.10	5.10	0.15	11.48	
	1	17.40	5.10	5.00	5.05	0.15	13.18	
2nd cross, VijayaLakhshmi Layout								
	1	15.00	4.30	3.70	4.00	0.15	9.00	
	1	15.00	3.70	3.70	3.70	0.15	8.33	
	1	15.00	3.70	4.35	4.03	0.15	9.06	
	1	15.00	4.35	4.05	4.20	0.15	9.45	
	1	15.00	4.05	4.65	4.35	0.15	9.79	
	1	15.40	4.65	5.57	5.11	0.15	11.80	
Cross road								
	1	13.00	2.10	1.60	1.85	0.15	3.61	
	1	4.50	3.00	2.90	2.95	0.15	1.99	
Shooting Banglow Main Road								
	1	15.00	5.00	5.00	5.00	0.15	11.25	
	1	13.00	5.00	5.40	5.20	0.15	10.14	

EXECUTIVE ENGINEER

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em No	Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
		1	15.00	4.30	3.60	3.95	0.15	8.89	
		1	15.00	3.60	3.40	3.50	0.15	7.88	
		1	4.70	3.40	3.40	3.40	0.15	2.40	
	Shree Shakti Bhavana Surroundings								
		1	18.15	2.40	4.45	3.43	0.15	9.32	
		1	16.40	2.40	2.90	2.65	0.15	6.52	
		1	14.50	3.14	2.60	2.87	0.15	6.24	
		1	7.67	2.32	1.90	2.11	0.15	2.43	
		1	17.13	2.38	2.70	2.54	0.15	6.53	
		1	2.95	1.20	1.20	1.20	0.15	0.53	
		1	5.00	1.65	1.27	1.46	0.15	1.10	
		1	15.96	2.19	2.10	2.15	0.15	5.14	
		1	10.00	1.97	2.02	2.00	0.15	2.99	
		1	17.70	2.60	2.32	2.46	0.15	6.53	
		1	14.60	1.75	2.36	2.06	0.15	4.50	
		1	6.27	1.07	1.18	1.13	0.15	1.06	
		1	7.00	1.20	0.60	0.90	0.15	0.95	
	Deductions								
	Main road,BHEL Mini Colony								
	Electric Pole	-4	0.20	0.20	0.20	0.20	0.15	-0.02	
	Man Hole	-1		(3.142*0.9*0.9)/4			0.15	-0.10	
	Trees Area	-9		(3.142*0.4*0.4)/4			0.15	-0.18	
	Borewell	-2		(3.142*0.4*0.4)/4			0.15	-0.04	
	Chamber	-1	1.50	0.30	0.30	0.30	0.15	-0.07	
	Ramp	-1	9.00	0.60	0.60	0.60	0.15	-0.81	
		-1	2.50	0.75	0.75	0.75	0.15	-0.28	
	Pk's Mustering Center Back Side Road								
	Electric Pole	-1	0.20	0.20	0.20	0.20	0.15	-0.01	
	Trees Area	-1		(3.142*0.4*0.4)/4			0.15	-0.02	
	2nd cross, BHEL Mini Colony								
	Man Hole	-1		(3.142*0.9*0.9)/4			0.15	-0.10	
	Ramp	-1	5.00	0.45	0.45	0.45	0.15	-0.34	
		-1	3.00	0.50	0.50	0.50	0.15	-0.23	
		-1	4.30	1.20	1.20	1.20	0.15	-0.77	
		-1	6.00	0.90	0.90	0.90	0.15	-0.81	
	Shooting Banglow Main Road								
	Man Hole	-3		(3.142*0.9*0.9)/4			0.15	-0.29	
	Ramp	-1	1.20	0.30	0.30	0.30	0.15	-0.05	
	Chamber	-1	0.45	0.45	0.45	0.45	0.15	-0.03	
	2nd cross, VijayaLakhshmi Layout								
	Electric Pole	-6	0.20	0.20	0.20	0.20	0.15	-0.04	
	Man Hole	-2		(3.142*0.9*0.9)/4			0.15	-0.19	
	Trees Area	-3		(3.142*0.4*0.4)/4			0.15	-0.06	
	Stage	-1	1.20	0.75	0.75	0.75	0.15	-0.14	
	Shree Shakti Bhavana Surroundings								
	Man Hole	-10		(3.142*0.9*0.9)/4			0.15	-0.96	
							Present Qty	**342.68**	**Cum**

29/04/22

Assistant Engineer
Ward No.13

29/04/22

Asst. Executive Engineer,
Shettyhalli Sub division

29/4

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Name of work:Improvements to Roads And Drains At PK's Mustering Center Surrounding Area In Ward No.13 Shettyhalli Sub Division

	Detailed measurements								
	Detailed measurement recorded on:								
tem No	**Discription of Item**	**No**	**Length**	**Breadth**	**D1**	**D2**	**Avg Depth**	**Qty**	**Unit**
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm								
	For RCC drain								
	For Bottom raft								
	1st cross,Byraveshwara Layout								
	RHS	1	6.00	0.75			0.15	0.68	
		1	12.00	0.95			0.15	1.71	
	For RCC Culvert								
	1st cross,Byraveshwara Layout								
		1	5.50			1.50	0.20	1.65	
	For Wall								
	RHS	2	6.00	0.15	0.60	0.65	0.63	1.13	
		2	12.00	0.15	0.65	0.70	0.68	2.43	
	For RCC Culvert								
	1st cross,Byraveshwara Layout								
		2	5.50	0.30	0.60	0.60	0.60	1.98	
							Present Qty	**9.57**	**Cum**

04/06/2024

Assistant Engineer
Ward No.13

4/6

Asst. Executive Engineer,
Shettyhalli Sub division

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

4/6/2024.

EXECUTIVE ENGINEER - 2
Bruhat Bangalore Mahanagara Palike,
Dasarahalli Division, Bangalore-57.

Scanned with CamScanner

Name of work:Improvements to Roads And Drains At PK's Mustering Center Surrounding Area In Ward No.13 Shettyhalli Sub Division

Pre Measurements

e measurement recorded on:

m o	Discription of Item	No	Length	Breadth	Kg/Mtr	Qty	Unit
	Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.						
	For RCC Drain						
	1st cross,Byraveshwara Layout						
	RHS						
	Total Drain length=18.00Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.62kg/mtr						
		144	2.30		0.62	205.34	
	Distribution bar 10mm dia @ 125mm c/c						
	0.62kg/mtr	18	18.00		0.62	200.88	
	For RCC Culvert						
	1st cross,Byraveshwara Layout						
	Total Culvert length=5.50 Mtr						
	Main bar 12mm dia bar @ 125mm c/c						
	0.89kg/mtr						
	No of U-bar=44Nos Top	44	2.80		0.89	109.65	
	Bottom	44	3.05		0.89	119.44	
	Distribution bar @ 125mm c/c						
	Distribution bar 10mm dia						
	0.62kg/mtr Top	22	5.50		0.62	75.02	
	Bottom	24	5.50		0.62	81.84	
	For CC Road						
	1st cross,Byraveshwara Layout						
	Total length=62.40Mtr						
	Main bar 10mm dia bar @ 150mm c/c						
	0.62kg/mtr						
		416	5.03		0.62	1297.34	
	Distribution bar 10mm dia @ 150mm c/c						
	0.62kg/mtr	34	62.40		0.62	1297.34	
					Present Qty	**3386.85**	**Kg**
					Present Qty	**3.39**	**Tonne**

30/05/20

Assistant Engineer
Ward No.13

30/5

Asst. Executive Engineer,
Shettyhalli Sub division

Scanned with CamScanner